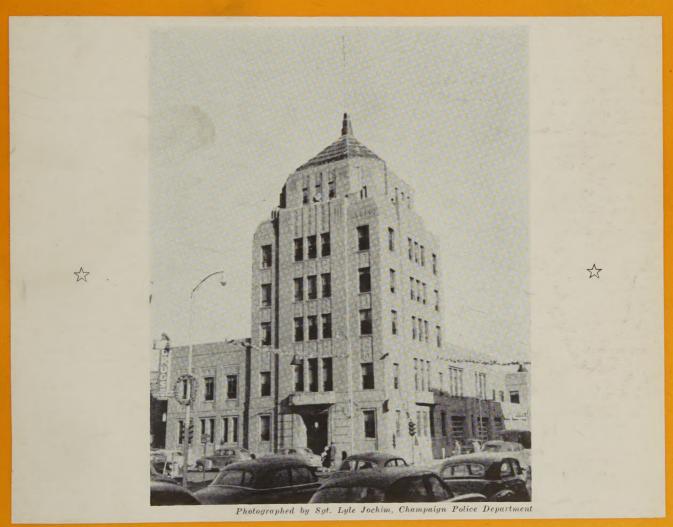


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ILLINOIS ENGINEER

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS FOUNDED 1934

66th Annual Meeting, Champaign-Urbana, February 1, 2 & 3, 1951



CHAMPAIGN CITY BUILDING ON A BUSY DAY

(Plan to be in Champaign-Urbana, February 1, 2, and 3)

THE ILLINOIS ENGINEER, JANUARY, 1951-VOLUME XXVII, NO. 1

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, Incorporated

Affiliated with the National Society of Professional Engineers

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Illinois Engineer: W. A. Oliver, Editor-in-Chief; H. E. Babbitt, Associate Editor; Max Suter, Correspondent to American Engineer.

Of Professional Interest

(See Program for 66th Annual Meeting on Page 4)

37th ANNUAL ILLINOIS CONFERENCE ON HIGHWAY ENGINEERING, UNIVERSITY OF ILLINOIS

The 37th Annual Illinois Conference on Highway Engineering is to be held in the Illini Union, University of Illinois, during the period February 20-22, 1951. From its favorable reception last year, the practice of having general sessions each morning and special interest group sessions each afternoon will be followed for the 1951 conference.

The program promises to be an interesting one. Although all program arrangements have not been made, it is definite that there will be a panel discussion contrasting Portland cement concrete and bituminous materials as primary highway surfacing media. Also of interest will be a panel discussion on highway financing and discussions relating to highway base design considerations, the truck overload problem, and the superhighway construction program in Chicago. The usual smoker and fish fry are to be held.

All engineers interested in this conference are not only cordially invited but urged to attend.

CENTRAL ILLINOIS CHAPTER FAVORS GAS TAX BOOST

From Decatur Review of Dec. 22, 1950

At its December twenty-first meeting, the Central Illinois Chapter went on record as favoring a two-cent increase in the present state motor fuel tax. The action was taken in the form of a resolution which is to be forwarded to state officials.

The Resolution describes the road problem as critical and cites these facts:

Approximately one-third of the miles of Illinois highways are obsolete or worn out.

The roads headed for destruction under existing conditions comprise the heart of the hard road system in Illinois.

Minimum requirements for saving the roads are "so much greater" than the revenue available.

The cost of maintenance is increasing and will "soon devour the entire road fund, leaving nothing for new highway construction."

Unless the state finds more road construction revenue, it will lose federal road construction revenue, it will lose federal road-building aid which requires state matching funds.

BOILER DRAFTSMEN WANTED

2 to 3 years minimum experience on drafting board doing detail drafting on structural steel, heavy plate, piping, boiler, economizer, airheater, steel casings, ducts and other miscellaneous work.

SPRINGFIELD BOILER CO. 1901 E. Capitol Ave. Springfield, Illinois

THE PRESIDENT'S MESSAGE

Come—come—to the Convention in Urbana!

The New Year is here, the holidays and celebrations are o'er, a new Society administration approaches, and to our duties we must attend once more.

This is my last opportunity to appeal to the members of our Society all to do their bit towards advancing the welfare of the profession, by attending the annual convention and participating in the sessions which will go far towards determining the policy and course of action of the Society not only for the forthcoming year but for other years to follow.

To some extent every year, increasingly so in the last few years, topics of important significance to professional engineers have been discussed from the floor and from the rostrum at our conventions, but the international and the consequent national situations this year provide more questions of greater import than we have ever faced before at one time. The policy and attitude of the Society with respect to these and other questions of local interest will be largely developed at this convention. Every member of the Society should attend to voice his views and vote. Nor should the opportunity for fellowship which is prevalent at our conventions be overlooked.

For a very special personal reason I am hoping for a record attendance at the convention. For the past several months I have attempted as well as I could to advance the thesis that every engineer who is proud of his profession should willingly contribute some of his time and energy and finances to the advancement of the profession, by activity in our Society. I shall gauge the success of my efforts by the attendance at the convention —I trust you will not disappoint me!

George E. Ekblaw, President

CONTENTS OF THIS ISSUE	Pages
Of Professional Interest	1-3
Program 66th Annual Meeting	4-5
Legislative Cooperation by Architects—Kane .	7–8
News from Chapters	8-12
Professional Directory	14
READ THE ADVERTISEMENTS	

SUBSCRIPTION RATES

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VOX SECRETARII

P. E. Roberts, Assistant Secretary

Year's End

Few of us were unhappy about attending the burial ceremony of the year 1950 and welcoming in 1951. The year has been one of upsets, uncertainties, and general bewilderment. Practically every group with which we come in contact has been affected. Political parties, football teams and University administrations felt the results of negative pulls.

The Illinois Society lost the golden opportunity of laying the foundations of an estate. In retrospect, it looked like, more than any other one thing, the Society was the victim of the adverse pull felt by so many groups. While the financial opportunity lost was of some consequence, the greatest loss to the Society was the loss of an objective to work and build toward. In spite of the reverses suffered your Society ended the year with net gains in membership, advertising, promotion of refresher courses, Chapter public relations activity, and employment service to the membership.

The office of the Secretary was moved during June and after six months the personnel is beginning to feel at home in its new quarters.

Budget restrictions have been severe but the Society weathered the storm without too much discontent from the membership.

Even the weather itself has been on the "unusual" side. Last winter was unseasonably warm, the summer was mild and pleasant and this winter has been strictly on the tough side.

May 1951 bring health and prosperity to the Members of the Society and may the Society face the New Year with renewed vigor and the will to make real gains.

CAPITAL CHAPTER PUTS ON RADIO PROGRAM

On Sunday, December 3, last, Capital Chapter produced a radio show under the authorship of A. M. Frost and aired by Station WCVS, Springfield. Apparently, this is the first effort of this kind sponsored by Members of the Illinois Society. In addition to Mr. Frost, J. P. Murphy, L. D. Hudson, L. K. Crawford, and David Abbott also took part in the production. If any chapter is interested in publicity of this nature, copies of the Capital Chapter script may be obtained by addressing a request to Society Headquarters.

ILLINOIS ENGINEERING COUNCIL ELECTS OFFICERS

Alois W. Graf, Chicago patent lawyer and member of the Institute of Radio Engineers and the *Illinois Society of Professional Engineers*, was named president of the Illinois Engineering Council for 1951. G. C. Laughlin of the Commonwealth Edison Co. and the American Society of Mechanical Engineers is first vice-president. Second vice-president is R. A. Lonier of the Illinois Association of Highway Engineers. John A. Harrington

of the Illuminating Engineering Society is secretal treasurer. K. V. Glentzer of American Institute of Eltrical Engineers, R. R. Bartelsmeyer of Belleville at the Illinois Association of County Superintendents Highways, and Norman Gundrum of Springfield at the American Society of Civil Engineers are members of the Executive Committee.

The Illinois Engineering Council composed of sixtenengineering societies is active in civic and government matters pertaining to the engineers' professional intests. It makes recommendations for appointments to examining boards for registration under the Structual and Registered Professional engineering acts.

RECRUITMENT OF SANITARY ENGINEERS FOR OVERSEAS ASSIGNMENT

Notice Received from N.S.P.E.

We have been requested by the Department of in Army to assist in the recruitment of qualified sanitant engineers for important overseas work in Japan.

The Public Health and Welfare Section of Supre Commander Allied Powers is greatly in need of sanitation engineers whose responsibilities will be to direct a coordinate a sanitation program in a designated regran of Japan. Such persons will work with a public head advisor rendering assistance and technical advice in field of sanitary engineering and will maintain liais with Japanese bureaus and civilian agencies.

Desired qualifications include a degree in sanitary civil engineering with a minimum of five years' specifized experience in sanitation work. The salary for the positions is \$6400 per annum plus living quarters at the minimum tour of duty is two years. Transportations and from Japan is at government expense. Interest candidates should make application directly to:

Recruitment Section
Overseas Affairs Branch
Civilian Personnel Division
Office of the Secretary of the Army
Department of the Army
Washington 25, D. C.

COVER PICTURE

The cover picture on this issue of the ILLINOIS E GINEER was obtained through the efforts of Mr. Jo T. Kearns, Member, N. S. P. E., and City Engineer Champaign.

TRIED AND TRUE

I only want a chosen few,
Who've stood through good, and evil, too—
Through friendship's test—
Who only strove to find the good,
And then, as only true friends could,
Forgive the rest.

Resumé of November Board Meeting

(Prepared by G. E. Ekblaw)

At their last meeting, held in Springfield November 4, the Board of Direction in six concentrated hours of vigorous but efficient discussion accomplished a volume of business whose magnitude can be adequately appreciated only by those who have attended such a meeting. Presumably the minutes of the meeting have been reviewed by the Chapter Representatives in subsequent meetings of their respective chapters. However, for the benefit of those members who could not attend such meetings, the most important items of business are summarized below:

- I. Approved for further consideration the recommendation of the Committee on Cooperation with Architects that the Illinois Society of Professional Engineers enter into an agreement with the Architects' Association of the State of Illinois agreeing that:
- (A) No revision to a registration act, building code, or ordinance be promulgated by either society, or a local subdivision thereof, without consultation with the other.
- (B) That the two organizations participate jointly in studies leading to the development of:
 - (1) Uniformity of fees for professional services.
 - (2) A schedule of fees to be charged when a member of one profession does work for a member of the other profession.
 - (3) A statement of general policy defining the types of work to be handled by each of the professions, as a guide to members of the respective societies.
- II. Determined that the 66th Annual Convention depart from custom and consist of a business session running from 10 a.m. Friday until noon Saturday (except for luncheon and banquet Friday), with talks interspersed. Order of priority of topics for such talks was also determined.

III. Approved budget for convention, providing for a \$2.00 registration fee, a \$2.00 Friday luncheon, and a \$4.00 banquet for each individual attending.

IV. With reference to Legislative Analyst, approved motion that if by January 1 we have received \$8,000 for the Legislative Analyst fund we proceed as previously authorized; if we have received not \$8,000 but \$5,000 or more the Executive Committee shall attempt to make new arrangements with Mr. Woltmann for his services; but if we have received less than \$5,000 the project shall be abandoned and all contributions shall be returned to the subscribers.

V. Resolved that the Society as such would not participate in Engineers' Week activities, but recommended to chapters that they participate in whatever manner they desire.

VI. Approved a recommendation of the Executive Committee that the Constitutional Amendment Committee be instructed to prepare an amendment establishing life membership without dues for corporate members of the Society who satisfy all of the three following qualifications: 1. Be corporate members of the Society paying dues continuously for 20 years or more. 2. Have retired from active service on account of age or disability. 3. Make written request for such membership.

VII. Approved recommendation of the Executive Committee that the dues of any person belonging to the Society be suspended while he is in active military service, provided:

First, his dues are paid up.

Second, he personally requests such action.

Third, he makes a statement that because of the nature of his service he will be unable to participate in or benefit from chapter or Society activities.

Fourth, suspension terminates when he can again benefit from or participate in chapter and Society activities.

LETTER TO THE EDITOR

Dec. 17, 1950

Illinois Society of Professional Engineers Champaign, Ill.

Att. W. A. Oliver

Editor the "Illinois Engineer"

Gentlemen:

This article is submitted as a suggestion in the interest of that group of Professional Engineers who received (and receive) certificates of registration on the basis of examination (and including those in the original "Grandfather Group" who were not required to take the examination) but who did not complete their college courses by actual attendance, or who for other reasons do not possess college degrees.

The issuance of a certificate of registration by the State, authorizing them to practice as Professional Engineers is prima facie evidence of their qualifications to do so. Although this group of engineers enjoys the benefits and privileges of practicing their profession, they are in a sense like ships without a home port. They lack the "tie that binds."

These men are capable, individual practitioners who, although ready and willing to give their support and allegiance to an Alma Mater, have none. The I.S.P.E. or the N.S.P.E. does not, and cannot fill the void, nor take the place of that which they look

In the case of those members of this group who are in the "Grandfather" category, many of them are of middle age or older; they will eventually be only a memory. But their ranks contain many fine and accomplished engineers, some of national recognition.

Inasmuch as the State has recognized the qualifications of this group, it would not be out of order to suggest that they be given that final evidence of acceptance by the educational representative of the state, the State University.

It would be a grand gesture, and a welcome one, for the University of Illinois to issue a form of diploma to this group of men, thus providing them with the "home port" which they need. Such a diploma could differ from the regular issue by being called an "Associate Diploma" or some similar name, with reference therein to the branch of engineering for which it is issued.

It would be an asset to the University as the recipients would be doubly appreciative of its value since the issue of this docu-

(Continued on page 6)

Program 66th Annual Meeting

Thursday, February 1, 1951 Morning

ILLINI UNION BUILDING

Urbana, Illinois

10:00	Registration.					
	Greet	old	friends-meet	new	0	

- 10:00 Board of Direction executive meeting, Faculty
 Lounge.
- 10:30 Inspection Trip.
- 12:00 Board of Direction Luncheon, Room 314 Union Building.

Afternoon

- 1:30 Inspection Trip.
- 2:00 Board Meeting open to accept and act upon Committee Reports.

Evening

7:30 Social gathering and smoker, Garden Room, Urbana Lincoln Hotel, Urbana. Champaign County Chapter, hosts.

Friday, February 2, 1951 Morning

- 8:30 Inspection Trip.
- 9:00 Moving Picture, 314 North Illini Union Building.
- 10:00 66th Annual Business Meeting of the Illinois Society of Professional Engineers.
- 12:00 Luncheon—George E. Ekblaw presiding.

 Talk by Mr. Sidney L. Stolte, President, National Society of Professional Engineers.

Afternoon

- 2:00 Continuation Annual Business Meeting of the Society.
- 4:00 Inspection Trip.
- 5:00 Recess of Annual Business Meeting.

Evening

- 7:00 66th Annual Banquet—George E. Ekblaw presiding. Ball Room, Illini Union Building.
 Virgil E. Gunlock introduces speaker.
 Major Lennox R. Lohr, Director Museum Sci-
 - Major Lennox R. Lohr, Director Museum Science and Industry, Chicago, and State Director of Civil Defense, speaker. Subject: "The Engineers' Role in Civil Defense."

Entertainment

ILLINI UNION BUILDING Urbana, Illinois

Saturday, February 3, 1951

Morning

- 9:00 Moving Pictures.
- 10:00 Resumption of the 66th Annual Business Meeting, 314 North Illini Union Building.
- 12:00 Adjournment of 66th Annual Meeting.

Afternoon

12:30 Luncheon for the 67th Board of Direction (new

- Board), 314 South Illini Union Building.
- 1:30 Organization meeting of the 67th Board Opirection.
- 5:00 Close of Board of Direction Meeting.

(Note: Speakers on Civil Defense and Engineers in Milita: Service, Highway Policies and Membership, Legislation and A vertising to be interspersed through the Business Meeting.)

LADIES' PROGRAM AT THE SIXTY-SIXTH ANNUAL MEETING

Friday, February 2, 1951

- 10:00 Coffee Hour, Federal Room, Illini Union Building.
- 12:00 Luncheon. If present tentative plans develop the ladies will be more than delighted with th arrangements.
 - Program followed by cards and visiting.
- 7:00 66th Annual Banquet with the men.

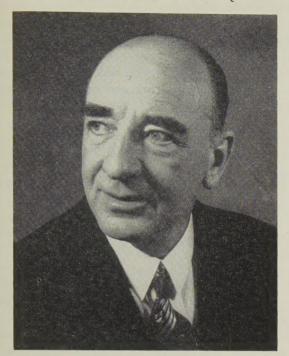


MRS. W. L. EVERITT

Chairman, Ladies' Program Committee, Wife of Dean W. L. Everitt, College of Engineering, University of Illinois

Education will show people the truth of these words of Abraham Lincoln: "You cannot bring about prosperity by discouraging thrift. You cannot strengthen the weak by weakening the strong. You cannot help the wage earner by pulling down the wage payer. You cannot help men permanently by doing for them what they could and should do for themselves."

SPEAKER AT ANNUAL BANQUET



MAJOR LENNOX R. LOHR

The Society is particularly fortunate in being able to have Major Lennox R. Lohr, President of the Museum of Science and Industry, Chicago, speak on a subject with which he is very thoroughly acquainted and which is of interest to all engineers: "The Engineers' Role in Civil Defense." Major Lohr is State Director of Civil Defense, consequently he has the answers to the many questions on this important subject.

He was born in Washington, D. C., and earned an M.E. at Cornell University in 1916. He went to France in World War I as a major of engineers. In 1929 he became General Manager of the Century of Progress in Chicago which position he held until 1935. In 1936 he became President and Director of the National Broadcasting Company and continued in this capacity until 1940. From 1937 to 1940 he was Director of R. C. A. Manufacturing Company.

In 1940 he became President and Director of the Museum of Science and Industry and under his direction the scope of the exhibits has been greatly expanded.

Major Lohr is author of numerous technical books and articles. He is the father of three girls and two boys and lives in Evanston. The Society is most fortunate in being able to present this busy and important man as speaker at its Annual Banquet.

COST OF LIVING INDEX

The correction factor to be applied to the I. S. P. E. Schedule of Minimum Fees and Salaries was 175.6 for November, 1950. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

Ability will enable one to get to the top, but character is the only thing that will keep one from falling off.

SPEAKER AT SIXTY-SIXTH ANNUAL MEETING



S. L. STOLTE, PRESIDENT, N. S. P. E.

Mr. Stolte will be a guest of the Society at the 66th Annual Meeting. He speaks accurately and straight from the shoulder. Come and hear him discuss the affairs of the National Society of Professional Engineers.

Sixty-sixth Annual Meeting, Champaign-Urbana February 1, 2 and 3, 1951

SPECIAL ENTERTAINMENT AT ANNUAL BANQUET

The committee in charge of the entertainment at the Annual Banquet under the direction of Chairman J. Holloway Morgan has engaged talent from the Campus of the University of Illinois for your enjoyment. Three different acts have been lined up—all students at the University—which have appeared in public in student productions—so the show will be semi-pro.

Chuck Casey is an accordionist who is a strolling troubadour but he is also capable of leading group singing if you feel so inclined. This boy has personality as well as talent.

Many of you have seen Jim Downs in another capacity. During football season he is Chief Illiniwek who does the Indian dances with the band at the Stadium. Jim is going to entertain you with tap dancing.

Don and Dave Henneberry, twins, are going to do an entertaining and amusing novelty singing act for you.

These boys are giving up part of their semester vacation to entertain you at the Annual Banquet but they do it willingly because they like to work before appreciative audiences.

LETTER TO EDITOR

(Continued from page 3)

ment was not mandatory, as in the case of regular graduates. It would be received by seasoned men who are established and in a position to express their appreciation in a tangible manner.

A fee should be charged for this certificate, the amount to be determined by the powers that be. The revenue from this source should go entirely to the University. This sum, while not enormous, could amount to a sizable figure.

But more important is the fact that the University would gain a group of loyal, capable "alumni" who would be an asset to the institution, and who would be glad to render such aid and support to their newly found Alma Mater as their ability would permit.

The logical instrument to take this suggestion under consideration, and if favorably considered, to carry on, is the I.S.P.E.

Very truly yours,

BILL JONES.

Bill Jones is a pseudonym. The author is known to the Editor.

The difference in wages between a school teacher and a plasterer is what causes the school teacher to get plastered.

ILLSOC'S FINAL VISIT

(Contributor wishes to remain anonymous.)

The late evening news broadcasts were even more alarming than the earlier ones had been. Chinese Communists were pushing through the lines across all of Korea, the British and the French were rushing to Washington for conferences, the Russians had succeeded in tying up the United Nations' council tables, and the use of atomic bombs was being discussed by every news commentator on the air. I was pondering the military value of a fissionable bomb in Korea, and wondering if perhaps the proper place for such an explosion wouldn't be over the Kremlin, when someone knocked at my front door. The last person in the world that I expected to see was Illsoc—but there he stood. Perhaps nuclear reactions were uppermost in my mind, but I wondered vaguely if this figment of someone's imagination were not some strange isotrope of humanity, for certainly no normal product of biological chemistry could have produced Illsoc. There he stood, impeccably attired in his tall silk hat, perfectly fitted evening dress, complete with cape, stick and gloves, and with his pinched gnome-like face and shaggy eyebrows drawn into a straight line. Such casual perfection of attire and such peculiar physical characteristics were incongruous, to say the least. And yet, there was something very compelling about him—something which attracted one's complete attention as though he were exerting an almost hypnotic influence.

Remembering my duties as a host, I hastily invited him in, and suggested that perhaps he would appreciate one of his favorite 5 to 1 Scotch and sodas, with the soda at the small end of the mixture. Had I been dreaming, his answer would have shocked me into wakefulness, for I had never known him to refuse a drink.

"Thank you, no," he barked; "later, perhaps, bu we've important business and we can't waste time of trivialities." Knowing Illsoc from old, I was prepare for almost anything, but he turned on a facet of his personality which was totally strange. His voice deep ened, if such a thing were possible, and instead of harsh rasp, he spoke in grave and solemn tones, with richness and mellowness totally unlike any of his pas performances. His voice had the tolerance of age and the crispness of youth.

"My friend," he began, "we have come to the mos critical situation we have ever faced. Back in 1776 old Ben Franklin said that we must hang together or assur edly we will hang separately. Old Ben's words are per haps more applicable today than they were in 1776, fo the forces of tyranny are many times stronger, and dev ilishly more clever than those of the 18th century. Ha tred and fear, pestilence and famine walk the world hand in hand, and the gods of war rule the hearts of many men. The normal problems of existence pale t insignificance in the fight for mere survival of our way of life, and democracy stands as the only barrier between free enterprise and subjugation to communism. I'm no here to preach a sermon, or to lecture on the problem of democracy, but the world conditions definitely deter mine the behavior pattern of man, and with the turmoi and the strife of war at our doorstep, we must remov the superfluous and concentrate on fundamentals."

By this time I was thoroughly attentive, for this wa an Illsoc who was deadly serious. His voice was low, hi tone was solemn, and I knew he was grappling with tre mendous problems. He paused, as though choosing hi words with careful consideration, then continued:

"As you know, I have concerned myself for the passew years with membership problems of the Illinois Society of Professional Engineers. The time has come for membership to stand on its own feet—and I have been thinking of the effect the world situation will have or the Society. I know what the resultant should be, but I am also aware that unless the engineering profession as a whole becomes continuously cognizant of the Society program, there will be no spontaneous growth. And that my friend, is the reason for my visit tonight. I want to propose a program for your consideration. Give it twenty-four hours of cogitation, tear it apart and put it together again, and then make necessary modifications to fit individual situations and put it into effect."

He paused, drew his shaggy eyebrows together, rubbed his nose and then pulled speculatively at his ear, and began:

"The engineering profession is probably more at war than any other profession. The engineer designs things—he builds things—he operates things—he makes them tick and keeps them ticking—he is the technical and often the administrative brain behind the necessities of our democratic way of life, be it building peacetime equipment or war machines. He automatically turns

(Continued on page 12)

Desire For Legislative Cooperation Expressed By Architects

EDWARD A. KANE, President, Architect's Association of Illinois

(Talk given by Mr. Kane at a joint engineer-architects meeting-before Capital Chapter October 24, 1950.)

fr. Chairman, Members of the Engineering and Architectural Professions:

It is needless for me to say that I have enjoyed the vening and I am sure I must speak for all the Archiects present. Your chairman, Mr. Frost, asked me to peak on the subject of "Professional Relations Between he Architects and Engineers."

No more fitting subject could have been given me. I nope that by some miracle I am granted the power of vords to express to you a small bit of what should be said on this subject.

I cannot think of a finer way to build good professional relations than by the method you have pursued his evening and I wish to commend this chapter on having an Architects' Night. I hope this principle will spread throughout the State and it would probably be a good thing if each year one such meeting could be held, one year the Engineers acting as host and the next year the Architects.

To know personally your professional fellowman, and to talk over your problems of mutual interest, is the key to professional relationship. I think the crux to all the misunderstandings in the world today, whether they be between architects and engineers, or chiropodists and men in the medical profession, or between nations of the world, could be answered in a bit of philosophy expounded by an old colored woman in the South, giving advice to her son. It is said that the young boy was about to leave home and as he was standing there, his mother said to him, "Remember, son, you ain't got no education and you are going out into the world, so you got to use your head."

Gentlemen, if we would all use our heads, I am sure all of our problems could be solved in a highly intelligent and professional manner. We are supposed to be intelligent men. We should be able to use our heads.

We are living in a world today that is ruled and governed by organization. We see that in our legislative halls, court opinions, schools and even in our churches. The influence of organization is the watchword of the day. I regret to say that no matter how just one's cause may be, it seems to be a hopeless task if not promoted by an organization. We all recognize this fact.

By that token, you need a powerful Engineering organization. We need a strong Architectural organization and I want to say to you Engineers, most Architects are happy that you have a Professional Act establishing your profession. My only regret is it was too long in the making, you should have had it years ago. Why do you have an Act? You have this act for public welfare,

not for your individual benefits. You may profit individually, but primarily your function is to protect the public welfare the same as your own. If I could find a fault with the Engineering profession, it would be that you do not proclaim yourselves professionally enough. I think it should be the duty of the Architectural profession to help you achieve this position to which you are justly due. I hope that before this year passes, some action can be taken in that direction.

I think if we are to accomplish anything we must speak with brutal frankness, but speak the truth. Legally, you are a young profession—historically, you are as old as the profession of Architecture. Legally, you had to recognize the Grandfather Clause, unfortunate in any law. There is conflict in your Act between the Structural Engineer and Professional Engineer and the Architectural Act. For all of our benefits and most of all for the benefit of the public, those conditions should be corrected. It is my personal opinion, and from many Architects that I have talked with, I am not alone in the thinking. The time has come to recognize each individual profession and define it in the extent and scope of its work. This is not a strange appeal, nor is it unreasonable. Many times I sit and wonder why professional men, in their relations toward one another, cannot be as smart as the Labor Unions. We have in the trade unions, especially those in the construction industry, all men doing work in a scope of endeavor, defined by their trade, but all working toward the ultimate goal of the completed project, each and every trade an independent unit with its own officers, its own directors and plotting its own course, but still using their heads to recognize the rights of other individuals.

Gentlemen, what do we fear by recognizing and defining the rights of others? Are we afraid we will lose something individually? My contention is that we will gain. We will not only gain the respect of the public, respect of our fellowman, but we will gain financially and the public welfare will be served more professionally. We are all to blame in this matter. Each and every one of us is doing things he shouldn't be doing. We are not putting out the best that is in us and only when one's efforts are the best can the public welfare best be served.

Who is "Joe Blow, Inc., Architect"? What right does he have to practice? He lost his professional status in a legal device; planned primarily to release one of individual responsibility.

Who is "I-Beam Inc., Structural Engineers or Professional Engineers"? How does he get in the picture

and why do we allow him there? Gentlemen, if we are going to be professional men, we have got to be professional. If we are going to gain the respect and dignity that our profession deserves, we must assume individual responsibility. We cannot get it hiding behind the cloak of a corporation what was a legal device, designed to relieve us of that responsibility. To gain the respect of our fellow professional men, we must recognize their talents and give them credit where credit is due.

An Architect needs a structural engineer and he needs the professional engineer in the planning of most buildings. They should cooperate as individual professional men, each recognized in his own field. An Architect has no business practicing either structural or professional engineering, unless he has gone up before the Registration Board and passed a written examination. The structural engineer likewise has no business practicing Architecture nor a professional engineer or Architect practicing in each other's field. We have not been trained properly in the subject.

I passed over the Mississippi River the other day and I could not help viewing the new bridge adjacent to Ead's Bridge and I thought, "What a shame. That ugly thing standing there next to a noble monument. It could just as well have been beautiful, like the Eads Bridge, an asset to the landscape, rather than a detriment." Someone might say, "Well, what's the difference? Good planning has nothing to do with public welfare." But—it does. Good planning would have eliminated our Slum Clearance Program today. Is there anyone in this room who would say that a good looking woman isn't more of an asset than the most homely individual you could find? They are both engineered in the same way and each has everything the other has. Make your selection! So it is with buildings, bridges, dams, and any project. We can only get the best when the best men in every field collaborate and recognize individual abilities as intelligent people should.

I want to say something that will probably shock you. The professional engineering Act exempts the Architect and the structural engineer and similar exemptions are written in the Architectural and Structural Acts. I realize under the Grandfather Clause that probably had to be there in the beginning. I think it is high time that they were removed. I see no reason when you

register a man in the profession of Architecture, automatically let him practice professional engineering I don't think that was the intent of the law. He has some knowledge on the subject, yes—but not enough practice!

Another problem that confronts all of our profession and that is a serious one—is the question of profession ethics. There are shysters in all groups and I am i clined to think there always will be. The problem that lies before us is-what are we going to do with them Something has to be done in the interests of our pr fessions and in the interests of the public. I think v need joint committees that can sit down and help stuc out these problems. I am at a loss to give an answer the moment. Legally, I don't know what can be don I think the time will soon be at hand, after we have used our heads, that each of the interested groups ca appoint a committee to sit down and write either amenments to our existing Acts or a joint Engineering Architectural Act that will plug every loophole, defir every endeavor, set up means and ways of recognizir each individually, and our responsibility to the public delegate to each profession the power to register an qualify and set up in that law a penalty and an agence to see that the law is enforced. A law without enforc ment is no law at all. That is our status at this momen

How many arrests have you had in the profession: Engineering Act since it was passed? I dare say then have been "none." Do you mean to tell me there wen no violations?

That same condition exists in Architecture and Structural Engineering but let me remind you, that condition does not exist in the Medical Profession or the Denta Profession! I am inclined to think the public esteem is which they are held is one of the reasons.

I think we are intelligent enough that we can recognize the merits of using our heads. I have enough confidence in the men in the Engineering and Architectural professions that we can join hands in a common purpose with firm resolve to solve the problems ahead of us, to unite our professions for the public welfare and cement our friendships and our purposes to the ever-lasting good of the profession of which we are a part and the public which we serve.

News From Chapters

Capital Chapter

The September 26, 1950, meeting of Capital Chapter, held at the Mill, opened at 7:00 p.m., following a dinner. Gustav Rehm, vice-president, presided. George Ekblaw, president of the State Society, briefed the activities of the administrative and welfare committees, stressing the service aspects of this latter group; he further announced the successful negotiation of a contract with Engineering Societies Personnel Service Inc., a firm that

will present an up-to-date list of job opportunities to th membership through the Chapters.

David Abbott, chairman, Civic Affairs Committee briefed the current committee's schedule for presenting Mr. Harlan Bartholomew, noted city planner, for a discussion on air pollution, at the November, 1950, meeting A. M. Frost, chairman, committee on public relations and inter-society activities announced the joint meeting between the local architects and Chapter engineers a

the October, 1950, meeting. Wm. Russell, chairman, Legislative analyst's committee, reported that returns on about two-thirds of the Chapter's canvass for funds that provided about \$500.00 for the State program; H. A. Spafford, chairman of the State committee advised that there was considerable favorable reaction to the program, the only unfavorable comment coming where there was a lack of understanding as to the work needed. Spafford said that he would complete personal contact with all of the chapters before the year was out.

L. K. Crawford, chairman, military affairs committee, reported that contact had been made by letter with Mayor Eilson, Springfield, offering the chapter's assistance in the local defense organization and that additional overtures would be made as a follow-up in the future. President Ekblaw advised that the State Society has offered its services to the State Administration and that further information would be made available as something crystallizes. C. W. Klassen reported on the action underway by the Chicago and State authorities and he referred to special consideration being given to the critical areas of Chicago, Rockford, Rock Island-Moline, Peoria, East St. Louis, and Springfield.

A feature presentation on the "Use of Radar in Engineering Hydrology" was then presented by H. E. Hudson, engineer head, and Glen Stout, meteorologist, State Water Survey Division, Illinois Department of Registration and Education. The talk and discussion that followed presented the new concept of "raintracking" and weather prediction, using radar equipment, particular emphasis being placed on the commercial use of the work.

The meeting was adjourned at 10:00 p.m. Among the ten guests present were W. A. Oliver, editor, Illinois Engineer, and P. E. Roberts, assistant secretary, ISPE.

Architect-Engineer Night was celebrated by Capital Chapter at the Mill, Springfield, on the 24th of November. Forty-three members and guests were present for the business meeting and inter-society gathering which followed a 6:00 p.m. dinner. In a brief business session led by President Murphy, summary report activities were given by Chairman David Abbott, civic affairs committee; A. M. Frost, chairman, committee on public relations and inter-society; and Wm. Russell, chairman, legislative analyst's committee. Announcement of positions available was made by Secretary L. D. Hudson. President Murphy advised that other committee reports were soon to be made and that the routine advancement of committee activities was being reviewed and checked by the executive committee.

The Sanitary Engineering quartet comprising members J. D. Williams, Virdun Randolph, L. D. Hudson, and also R. M. Scott, briefly entertained the group with barbershop harmonies.

A. M. Frost then presented speaker Edward A. Kane, State President, Architects Association of Illinois, who restated the architects views on needed legislation. Kane was impressed with the desire of professional engineers to collaborate in the preparation of proposed legislation and he suggested that our joint professions "iron out" future differences so that we could put forth mutually advantageous efforts. C. T. Morrisett, chief architect, F. H. A., Springfield, presented a review of Professional engineering aims; proposed that ISPE and AAI members enter into common agreement on recommended legislative proposals, including codes and ordinances, so that such legislation would only be pushed after the joint consideration of both organizations. It was subsequently moved by Herchel D. Hill that Capital Chapter instruct its representative to urge the joint meeting between legislative representatives of AAI and ISPE for obtaining common agreement of any legislation proposed by either organization, affecting the professional architects and/or engineers. The motion was seconded by David Abbott and a unanimous vote was cast in its

The meeting was adjourned at 10:00 p.m.

* * *

This regular meeting, held at the Mill, was devoted to the activities of the Civic Affairs Committee, David Abbott, chairman. By special invitation of President Murphy, 29 guests joined the Chapter for the dinner meet starting at 6:00 p. m., to join in a discussion of Air Pollution and City Planning. Total attendance reached 67.

Following the opening of the meeting by President Murphy a brief business meeting was held. Chairman R. S. Nelle, nominating committee, announced the selections of the group to be: L. D. Hudson, president; Arthur Kessell, vice-president; L. F. Ryburn, secretary; David Abbott, treasurer; and L. K. Crawford, chapter representative. Chapter Representative A. M. Frost reported on the functions of the State Board, ISPE, in the last Board meeting and announced the preparations for the Annual Meeting of the State Society to be held in Champaign-Urbana, February 1, 2, and 3, 1951. He also reported on the Big E award made to Capital Chapter for its public relations work in Springfield; expanding on this, he requested that Chapter members tune in to radio station WCVS, Springfield, 2:30 p.m., December 3, 1950, to hear the Chapter's first radio program, one of a series to be broadcast in connection with the public relations program.

President Murphy then turned the meeting over to Chairman David Abbott, Civic Affairs Committee who introduced Mr. Harlan Bartholomew, noted city planner from St. Louis. The speaker outlined in six steps, the pertinent considerations that any city must be reviewing to properly guide its growth. Mr. Bartholomew's discussion opened the entire planning problem to the engineering group, pointing out shortcomings that definitely indicated the need for civic action to bring Springfield's planning work up-to-date. A subsequent discussion on Air Pollution brought an expression from the different agencies involved; in the review of this topic there

was general agreement as to the need for a technical investigation, and, it was agreed that the Capital Chapter would proceed with its work along these lines, any report of which would be put out only after a representative lay committee had had the opportunity to comment, the report to be made to the Exchange Club for joint expansion of the problem and its control.

L. D. Hudson, Secretary

DuKane Chapter

A turkey dinner with all the trimmings was enjoyed by 15 members and guests of DuKane Chapter on December 14, 1950.

Minutes of the November meeting were read and approved.

The \$50,000 Public Relations Fund program as proposed by the National Society was brought to the attention of the Chapter members. After discussion, it was moved by Rob Roy and seconded by Wm. Ross to table the issue with the provision that members may contribute individually if they desire.

President Cash informed the members of the honorable mention awarded our Chapter by the National Society for the paper on "Civilian Defense" submitted by our publicity chairman.

Doug. Drier, chairman of the Legislative Analyst Committee, reported that no additional donations for the State Legislative Analyst fund have been received.

President Cash called for the election of Chapter officers for 1951. He read the slate of officers as submitted by the nominating committee and asked for additional nominations from the floor for each office.

The following officers were elected by voice vote for the 1951 term:

President—John Bateman, Elgin, Illinois Vice-President—Douglas Drier, Aurora, Illinois Sec.-Treas.—George Booth, Jr., Elgin, Illinois Chapter Representative—Robert Roy, Aurora, Illinois

Chapter Executive Committee officers will be elected in the January meeting.

Program Chairman George Booth introduced Judge Charles G. Seidel, Judge of the Kane County Court, who entertained the group with an interesting address of his experiences as States Attorney for the County and the many phases covered by that office and that of the Judge of the County Court.

Adjournment followed at 9:30 p.m.

W. A. RAKOW, Secretary-Treasurer

Egyptian Chapter

The Chapter and guests assembled on Nov. 28, 1950, at Jackson Country Club, near Murphysboro. A chicken dinner was served at 6:30 p.m.

The Special Meeting convened at 8:00 p.m., with Chapter President T. O. Cromeenes presiding. The following members were present: Keen, Ward, Persson, Kirsch, Snyder, Harris, Haroldson, Hoskins, Kerwath,

Cromeenes, Anderson, Sherertz, Midjaas, Hinkle, Blankenship, Gates, Schulz, Lee, Brock, and Burnett.

The following guests were introduced: Mr. Russel Stephens, Mr. Charles L. Ritchie, Mr. N. E. Russell, Mr. Domenick Viterisi, Mr. F. D. Raycher, and Mr. R. I Kahl.

State President Ekblaw and Assistant Secretary Roterts were present on their official tour. These gentleme were introduced to the group at this time.

The minutes of the preceding meeting were read and approved.

Mr. C. S. Ward, Chapter Representative, reported of the meeting of November 4, 1950, of the ISPE Board of Direction. At that meeting, each Chapter was asked to present names of men qualified to sit on the State Examining Board for Registered Professional Engineers Mr. Ward requested effort by all to secure more advertising for the Illinois Engineer. Mr. Ward presented the Board action on the proposed legislative analysmanely to attempt to raise at least \$5,000. He also passed on the request that dues in arrears be paid up before the annual meeting.

Mr. Ward spoke of obtaining members from colleg ranks by following up engineering graduates in eac chapter area. In discussion, several young engineer present mentioned that there had been no follow-up it their cases. Dr. Ekblaw reported that student engineer at the University of Illinois were invited to join the Champaign Chapter of ISPE, and that this appeared the serve better than student chapters.

President Cromeenes mentioned our publicity, especially, a recent release on military deferments for engineering and science students. He mentioned also a recentlocal unfavorable headline on the legislative analysmatter, in which it was made to appear that our effort are political.

This led into a general discussion of the proposed leg islative analyst. Dr. Ekblaw made it plain that he wa intended to be a non-political observer, checking all bills for points to be called to the Society's attention, and ready to furnish engineering assistance to the legislators but that legislative action would be the responsibility of the Society, acting through its Board and Committees.

At this point the attached resume of Mr. Spafford' talk at the last meeting was read, for the information of the group. The Secretary reported on his recent discussion with a legislator, who stated that our analyst would probably be considered a lobbyist, and that we could get the information needed from the legislative digest.

The group then held an extended discussion of the legislative situation, membership problems, treatment of young engineers, and other Society matters. Georgy Anderson spoke on our "hit or miss" legislative action to date, which have been effective so far because of men willing to spend time watching and working. It was pointed out that legislators can be approached most effectively by their personal friends. Dr. Ekblaw dis

ussed the Society mechanism for advising the memberhip when such action is advisable.

The sentiment as to legislative action was divided. There was no vote, but President Cromeenes urged each nember to act in accordance with his own opinions, and o make contribution if he favored a legislative analyst.

It was evident also that the field of young engineers s not receiving sufficient attention.

Dr. Ekblaw and Mr. Roberts were asked to speak. Mr. Roberts went over the classes of memberships, and spoke of plans for widening our membership. Dr. Ekblaw spoke of our new personnel service. He then effectively developed the thought that each individual engineer should consider what he can do for the Society, rather than considering only what the Society can do for each member, stating that such an attitude would have as its result, the maximum general and individual benefit.

The group really "got going," and adjourned finally at 11:30 p.m.

J. L. Burnett, Secretary

Illinois Valley Chapter

The regular meeting of the Illinois Valley Chapter of the Illinois Society of Professional Engineers was held at the "Pines" in Streator, Nov. 21, 1950. More than 40 members and guests sat down to a sumptuous turkey dinner. Following the dinner the regular meeting was called to order by President Cullen.

Mr. Staats, the chairman of the membership committee, reported two new applications for membership.

Mr. Dunavan, chapter representative, reported that the plan of having a legislative analyst has not received popular support.

President Cullen appointed a nominating committee consisting of Mr. Dierstein, Mr. Staats, and Mr. Renz.

Committee for the social evening, Mr. Cephas Williams, Mr. Manigold, Mr. Hollerich, and Mr. Schiemmel.

Mr. Roberts, field secretary for the Illinois Society, was present and spoke on increasing membership.

We were particularly honored by having Mr. George E. Ekblaw, president of the Illinois Society of Professional Engineers, attend this meeting. President Ekblaw chose as the subject of his talk, "The what, why, and how of professional engineers."

Mr. Ekblaw spoke of how the society membership, individually and collectively can assist and advise young engineers, promote good fellowship among engineers, cooperate with architects and other professional groups and in other ways enhance the value and prestige of this society, so it will gain further recognition as the representative body of the engineering profession.

Among the points touched on by Mr. Ekblaw were the legislative committees, engineers employment service, counselors for young engineers and increasing the membership of the society.

A discussion by the members followed the talk.

Mr. Ekblaw and Mr. Roberts were given a vote of thanks for their attendance and interesting talks.

Following Mr. Ekblaw a sound film, "Houston Texas to Eastern Seaboard Pipe Line Development," by the Tennessee Transmission Company was presented by Mr. Arthur W. Barron of the Public Service Co. of Northern Illinois. This film showing the construction of the Big Inch pipe over all kinds of terrain, challenging engineering skill, proved most interesting.

A short discussion followed. Meeting adjourned at 11:30 p.m.

Louis Bowman, Secretary.

Lake County Chapter

The regular monthly meeting of the Lake County Chapter of the Illinois Society of Professional Engineers was held Wednesday, Dec. 20, 1950, at the Swedish Glee Club. Dinner was served to 45 members and guests.

The business meeting was called to order at 8:05 p.m. by President Simonson. Minutes of the Nov. 15th meeting were read and approved, as was the treasurer's report.

Secretary Jaeschke was instructed to send a letter to the Chicago Hardware Foundry Co. in appreciation of the Speaker's Stand which was presented to the Lake County Chapter.

President Simonson called upon the various committee chairmen concerning their activities. Mr. Drew outlined the programs planned for next year. Mr. Loftus stated that no complaints had been received concerning violation of the Ethics and Practices Code. Mr. Amstutz indicated that the Lake County Chapter can expect to become actively engaged the coming year with problems having to do with the newly proposed Building Code. Mr. Staben reported on membership, mentioning that increases have been realized and that more can be expected. Messrs. Klarkowski, Amstutz, and Drew reported that there is nothing of a current nature concerning the activities of the Coordinating, Advertising, and Military Affairs committees.

Mr. Miller reported that at a meeting held downstate last Nov. 11th, there was some discussion concerning violations of the Engineer's Registration Law. The investigation disclosed a certain amount of looseness in the law with the recommendation that corrective measures be taken.

Mr. Bleck spoke briefly of the function of the newly-formed Civil Defense Commission of which he is a member also stating that Mr. Frank Kramer has been named to be chairman of the Engineering Committee. The point was made that this area desires and needs a good Disaster Program, but that it should not go overboard to the extent that the practical values and the purpose of the program are lost in a maze of mass enthusiasm.

Nominating Committee Chairman Miller submitted the following slate of officers for the year 1951:

President, Chauncey L. Calkins

Vice-President, Cyril Drew Sec.-Treas., Robert G. Kramer

There being no additional nomination from the floor, it was moved by Mr. Bleck and seconded by Mr. Fossland that the nominations be closed. Motion carried. Mr. Bleck moved that an unanimous ballot be cast for the proposed candidates. The motion was seconded by Mr. Arehart and was unanimously carried.

Mr. Hooper stated that the National Society of Professional Engineers plan to put a publicity campaign into effect aimed at education of the public with respect to the practice of competitive bidding for engineering services. President Simonson read statements of policy concerning engineering services pointing out that Engineers should not compete against each other on a bid basis and that such bids should be on a professional plane with such qualifications as ability and integrity being taken into account.

Mr. Hooper mentioned that the State should publish a list of all Structural and Professional Engineers. Mr. Amstutz stated that such a list is published, but that it is not generally distributed and that a copy is on file at I.S.P.E. headquarters. Mr. Klarkowski stated that Building Contractors and Supply Houses have a list of Architects and Structural Engineers, but not of Professional Engineers.

President Simonson opened a discussion of the newly-proposed Building Code and Mr. Bleck spoke of the importance of the Lake County Chapter becoming actively engaged in this problem. Mr. Weeks stated that many of the Lake Shore cities have plans underway to consolidate their efforts towards the adoption of a good building code. Mr. Staben recommended the appointment of a committee and such committee was appointed by President Simonson:

William T. Hooper, Chairman, Waukegan, Ill. E. L. Weeks, Highland Park, Ill. George T. Watson, Lake Forest, Ill. Bruno L. Jakaitis, North Chicago, Ill. Ralph A. Nelson, Waukegan, Ill. Lester Koetz, Zion, Ill. Lyle R. Loftus, Grayslake, Ill. Martin J. Casey, Libertyville, Ill.

Program Chairman Drew introduced Mr. D. L. Rankin, Manager of the Pipe Line Products Division of the Standard Oil Co., who, with his assistant, Mr. Harold Taft, traced the growth of the Pipe Line Industry in this country. Graphic slides and charts showing this growth were shown, as were other slides showing methods of laying pipe as well as the operation of the vast network of pipe lines. Mr. Rankin stated that proven oil reserves in this country were quite adequate and that the number of new oil fields being discovered are in excess of current usage.

The meeting was adjourned at 10:20 p.m. Following the closing of the meeting a movie of the Oil Industry was shown for those who cared to stay.

E. A. Jaeschke, Secretary

ILLSOC'S FINAL VISIT

(Continued from page 6)

to his technical society for technical information and assistance. In years gone by, in the security of democratic and peaceful living he often let the professional aspects of his work take care of themselves. Now he can't. The democratic way of life is threatened, and he must devote some time to re-designing the footings which have been partially undermined from without. It is not longer an individual problem, but an associated problem. In the unification of effort comes the only source of salvation.

"This basic concept must be accepted by all engineer —not tomorrow but today! It takes a corps of engineer made up of civils, mechanicals, electricals, chemicals mining, et al, to encompass the complete field of endeavor, and to work in harmony and understanding a unified group with one objective. High-sounding words, perhaps, but vital to our very existence. We must turn to our professional society in this hour of need when we require professional assistance as we have turned to our technical societies in the past when we needed tech nical assistance. Only there can we find the unification required to marshal our engineering concepts into a solid bulwark from which we can defend our principles extend our influence, and combat the forces that seel to overthrow us.

"The time is at hand to become activated on every level. We must carry the program of the Society to every nook and corner of the profession. At the individual level, at the Chapter level, at the State level and at the National level we have work to do. The whole pro gram is resolved at the personal level, however, for without active individual participation, the entire structure collapses. There is a momentous program of mobilization ahead in which the engineer is a key figure, in both the military and the civilian phases. There is legislation to follow up, and perhaps direct. There is tremendous educational work to be done in a civilian defense program designed to take care of atomic weapons. Civic problems of increasing magnitude are developing more rapidly than we ever dreamed of. These and many more develop and grow daily, and in each case the engineering profession is the key to the success of the undertaking. We are no longer cloistered in ivory towers—we are public servants, whether we want to be or not. engineering profession has come of age! We have no recourse, in the light of world developments, but to don the weapon of unification and fare forth to meet the foe.

"This is the story each individual member of the Society must carry. It must not be a mere selling campaign for membership; it must be a program of salesmanship in which sales are the spontaneous result of seeing the product and wanting it. Invite the man who doesn't know about the Society to participate in some phase of the work—probably at a chapter meeting. Show him things are being done; explain the workings of

N. S. P. E. at all of its levels. Sell membership by doing not by talking. I think it will work!

"Get the chapter committees working. Make it a point to have the voice of the engineer heard at the government level in the chapter's city. Take a stand on issues which involve engineering practices and let that stand be heard! Get after senators and representatives! Do something locally! Your state and national representatives are being heard! Don't be afraid of controversy! Ah, my friend, do that and your membership problem solves itself! When the organization proves that it is a professional organization in its activities, the unification of the profession will follow as a logical step. The doubters and the questioners will seek the Society when they see that it is doing the things a professional society should do, and as a team we can work together.

"Yes," Illsoc sighed, "Old Ben had the combination—we hang together or we hang individually.

"By the way, where is the Scotch bottle?"

I poured Illsoc five ounces of Scotch and one of soda, and poured myself a normal drink.

"Make mine a double," Illsoc growled.

As this sounded somewhat similar to the Illsoc of old, I complied, but then forgot to drink my highball, for Illsoc downed his with a gulp and in a thunderous voice reminiscent of field artillery he announced: "So long, old timer; I'm off for Asia, and I won't be back 'til it's over, over there!"

There was a flash — and all that remained was an empty Scotch bottle.

CONCRETE-BLACKTOP TEST HIGHWAY TO BE TRIED IN INDIANA

A three-mile test strip of new type highway to combine the best features of cement and bituminous black-top construction is expected to be built in Indiana within the next six months.

Specifications call for nine inches of concrete on a compacted base, covered by $1\frac{1}{2}$ inches of bituminous concrete binder and another $1\frac{1}{2}$ inches of finer bituminous surface.

The State Highway Commission has sent the proposed specifications to most highway contractors and to Purdue University requesting opinions and, on the basis of suggestions or criticisms received, some changes may be made.

It is pointed out by state highway officials that the plans are an adaptation of old construction use on city streets composed of sheet asphalt on a concrete base.

Although the exact cost of the new paving has not been determined, it is estimated that it would be slightly more than for present concrete roads.

One state official has said, "The big advantage is that it seals the road at the top, preventing water seepage which occurs through the cracks of the concrete roads."

Highway Highlights

PROFESSIONAL REGISTRATION

BY N. W. DOUGHERTY

Chairman, Tennessee State Board of Architectural & Engineering Examiners

(This statement is distributed with the Tennessee Roster of Registered Architects and Engineers to give information about registration not only to the general public but also to those registered architects and engineers who do not have a complete understanding of the registration movement.)

Professional registration, as it is practiced in the United States today, is of comparatively recent origin though the registration of architects and engineers has a background of the guild system of the middle ages. Architectural registration began in the United States in 1897 and engineering registration began in 1907. The Tennessee joint law was enacted in 1921.

The legal basis for professional registration is the protection of the public health and public safety. This, of course, is the major objective of the activity. Incidentally, the professions have received a certain amount of protection from competition with persons who are not registered, but the basic effort is protection of the public and not the practitioner.

There are two methods of protecting the public, one by regulation of the practice and the other by protecting the professional title. Many of the laws of the states regulate the practice of the profession. A definition is given and then the law makes it illegal for persons to do the things listed in the definition unless that person is registered by the Board.

The Tennessee law is designed to protect the professional title. The designations "architect" or "engineer" cannot be used by a person not registered either as an appellation or as a modifying adjective. There are no definitions of architecture or engineering in the Tennessee law, though the law has been made very strong by two Supreme Court decisions.

In the Standard Engineering case it was decided that a firm not practicing engineering was in violation of the act if it used the title engineer. The public was deceived by the use of the title and the Court required the company to use some other title.

In the A. Herbert Rodgers case the Court decided that a person could not do the things ordinarily done by an architect (and by analogy by an engineer) and call himself by another title. The act of doing the things normally done by a professional was construed as use of the professional title.

A person who has been certified by the Board has met the minimum requirements for practice in his profession and at the same time his references have spoken well of him. It is an essential requirement that the applicant have good character as well as satisfactory education and experience.

Since the law is very general for both professions, the individual practitioner must be a person of integrity. The registrant is called upon to determine his own com-

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petency and to avoid commissions for which he has no training or experience. This is true in medicine, law and the other professions. There is no substitute for integrity of the practitioner.

The Board, under the law, issues a certificate of registration to persons meeting the requirements of the law unless there is disqualifying evidence. Registered architects and registered engineers are required as references for applicants. It becomes the duty of references to bring to the attention of the Board any disqualifying evidence which they may possess. When a certificate is issued it can only be revoked under the provisions of the law.

-Registration Bulletin

So many gods, so many creeds, So many paths that wind and wind, While just the art of being kind Is all the sad world needs.

Ella Wheeler Wilcox.

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Use of this space is limited to members and associates of the Society. This is a dignified and excellent way to let engineers know that your firm can always accept another account. The price is very reasonable. A card or letter to the Secretary, 631 East Green Street, Champaign, Illinois, will bring full details.

PRODUCTION RECORD

After setting a new production record in 1949, th U. S. automotive industry now has another record—hav ing built more vehicles in January and February that in the first two months of any past year.

Over a million vehicles were turned out in the firs two months of 1950, or about 200,000 more than in th same period last year.

The new record was made in spite of one large pro ducer's plants being shut by strike for part of Januar and all of February.

An estimated 870,000 cars and 185,000 trucks and buses were produced in the two-month period this year compared to 650,566 cars and 207,375 trucks and buse turned out in the same period of 1949.

CARS IN 51% OF FAMILIES

A survey by the Federal Reserve Board reports tha 51% of 50,400,000 American families own at least on automobile and that one out of 17% own two or more Car ownership was found to run ahead of home or farm ownership.

INDUSTRY GROWS IN 1950

American industry is expected to spend \$12.7 billion on new plants and equipment in the first nine months of 1950.

The outlay will increase production, making more goods and services available to the buying public. It will also serve to keep existing plants busy.

In addition, the investment will create more jobs in manufacturing companies. Industrial employment has increased 62 per cent since 1930, in comparison with a 20 per cent rise in the country's population.

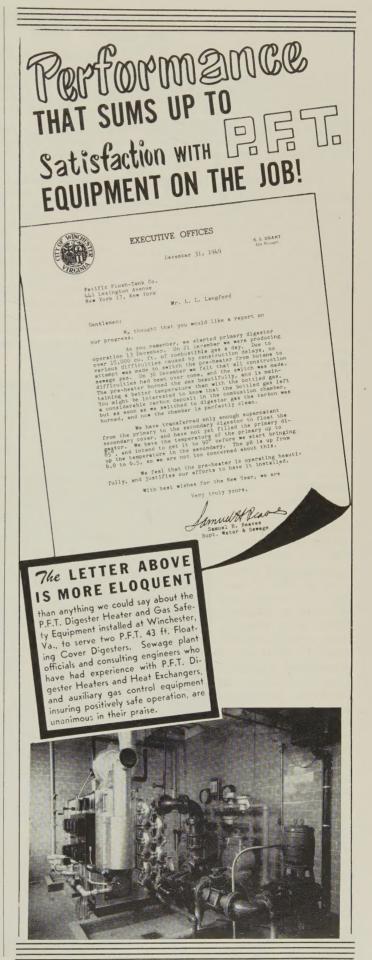
TWO GAS TAX INCREASES

Motor fuel taxes were increased this year by one cent in Mississippi and one cent in South Carolina. A two cent South Dakota increase was held unconstitutional by that state's Supreme Court because it failed to receive a sufficient majority of votes in either branch of the legislature. A Missouri increase, also two cents, was subject to referendum and the voters rejected the measure by an overwhelming majority. Proposals for one cent increases are pending in the legislatures of both Massachusetts and Michigan.

If we are to make a democratic civilization, we must remember the need for something no less important than equality. That something is quality.

-Sir Richard Livingstone





Engineering Societies Personnel Service, Inc.

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These items are from information furnished by the Engineering Societies Personnel Service, Inc., Chicago. This SERVICE is operat on a co-operative non-profit basis by the Illinois Society of Professional Engineers, and the national societies of Civil, Electrical, M chanical and Mining and Metallurgical Engineers. Apply to ESPS, Chicago and the key number indicated. Prepared ENGINEEL AVAILABLE advertisements limited to 40 words, with typed resumé attached may be submitted to ESPS Chicago by members of t Illinois Society of Professional Engineers at no charge.

If placed in a position as a result of an Engineers Available or Position Available advertisement, applicants agree to pay the establish placement fee. These rates are available on request and are sufficient to maintain an effective non-profit personnel service. A weekly by

letin of positions open is available to subscribers. Apply E.S. P.S., Chicago.

POSITIONS AVAILABLE

Maintenance Engineer. E. E. under 45 well experienced in industrial electrical power lighting and controls for maintenance and operations. Will direct maintenance and operation of A.C. and D.C. installations, underground and surface for a mining company, \$7000-\$8500. Southern Ill. R-7227(a)

Young Engineers, graduates, to work in office and operational end of buildings materials. Combination operating quarries and gravel plants. Some exp. as contractor's man desirable. Ultimate employment as sales or operating engineers. Salary open. Location: Chicago. R-7227(b)

Vice President in charge of mfg. Grad. Age: 35-50. Broad experience in operations and administration of job production of heavy equipment including machining and assembly. Responsible for production, factory buildings and equipment, employees relations, production and cost control, works accounting, etc., for a manufacturer of heavy mining, construction and marine equipment. Fifty million dollars volume 5 plants—Middlewest and East. Sal: \$15,000-\$25,000 plus bonus. Headquarters: Pa. Traveling involved. R-7232

Industrial Safety Director. Age 40-50. Previous industrial or association experience in safety or industrial and public relations. Knowledge of industrial problems. Duties: Direct safety programs, promotion, and public relations work for trade association. Salary \$10,000-\$12,500 Chicago. R-7244

Architectural Engineer, Age: 35-40. 5 + years' exp. industrial plant. Architectural board work. Knowledge of wood frames and steel. Informed about industrial plants. Duties: Board work designing, detailing or checking industrial plants. Salary \$4000-\$6000 Chicago. R-7245(a)

Structural Design Engineer Age 30-40. 5 + years' exp. req'd designing industrial buildings. Knowledge of concrete and steel. Duties: Board work structural design phases of industrial plants. Salary \$4000-\$6000 Chicago. R-7245(b)

Field Engineer, C.E. Some previous exp. in contracting construction work—field work. Recent graduates and experienced men considered. General knowledge of contractor's field work. Duties: General field work for construction engineering firm. Salary: Open. Location: Chicago headquarters. Considerable traveling. R-7252(a)

Mechanical Building Designer 5+ years' exp. designing mechanical phases of buildings and industrial plants. Knowledge of heating, ventilating, air conditioning and plumbing. Duties: Board work designing mechanical phases of industrial plants. Salary \$4000-\$6000 Chicago. R-7245(c)

Civil Engineer, C. E. Previous field and office experience plotting and handling surveys, drainage, landscaping and running elevations. Knowl. of survey work. Informed about instrumentation. Duties: Take charge above mentioned work for construction engineering company. \$4000-\$5000 Chicago. R-7245(d)

Construction Superintendent Age 40-55. 20 years' exp. req'd in general construction. Must be able to meet schedules during winter months and be U. S. citizen. Knowl. of black and concrete construction. Informed about interior finishing. Duties: General Superintendent for contractor on government construction. Salary: \$175 plus expenses and performance bonus. Location: Michigan. R-7237

ENGINEERS AVAILABLE

Distribution or Field Engr. E.E. 26. One and half years planning and executing test programs electrical devices. One yr. estimating, preparation working drawings and field supervision electrical contractor. Chicago \$4800. 799-P.E.

Management Engr. A.B. 43. Two yrs. selling electronic communications equipment; four yrs. consulting management engineering covering job evaluation, procedures, operational analyses, job standards, and production control. Nine yrs. systems and methods, office phases. Chicago \$6000. 800-P.E.

Time Study Engr. 26. Two and a half yrs. time study, rate setting and some methods foundry, machine shop, and electrical bench assembly operations. Chicago \$3700. 801-P.E.

Estimator, industrial construction. 60. Thirty yrs. all phases construction work. Office management. Field supervisor, expediting and purchasing. Sub-letting contracts. Re-inforced concrete and ordinary construction. \$7500. Will go anyplace. 802-P.E.

Development Engr. 41. M.E. Seven yrs. design of and tooling for apparatus and instruments. Desire responsible position in development or design. Midwest. \$6000. 803-P.E.

Surveyor or Inspector. 22. Four yrs. hig way department survey and inspecting soil analyses of concrete and materials and general instrument work. \$250. Chicago. 80 P.E.

Administrative Asst. M.E. 26. Eighted mos. oil company foreign assignment. Geeral engineering training. Ten mos. administrative research, employee benefit plan labor, management problems \$5000. Wor Anywhere U.S. Foreign: Spanish, Frenc German. 805-P.E.

Field Service Maintenance Engr. E.E. 2 Draft exempt. Three and half yrs. maint nance supervision aircraft electrical equi ment. One and a half yrs. service and d velopment electro-mechanical timing device \$275. Chicago. 806-P. E.

Field Engineer, 28. Three yrs. electrics utility. Two yrs. general engineering officed doing engineering calculations. One yr. dias field engineer, inspecting field condition drawing new work. \$300. Chicago or Scalif. 807-P.E.

Plant Engineer, 45. Seven yrs. building construction. Eight yrs. building maintenance Nine yrs. mechanical engineer, machine de signer. Can handle men. Anywhere. Tak charge. Over \$8000. 808-P.E.

Estimator-Salesman. M.E. 28. Three an half yrs. estimating product application preparation specifications, technical correspondence and outside sales—mfr. pump and auxiliary equipment. \$4200. Chicago 809-P.E.

Sales and Sales Management E.E. 42. Fif teen yrs. technical sales, chemical, food processing fields. Four yrs. sales management Chicago \$8500. 810-P.E.

Technical Librarian, L.S. 37. Five yrs. librarian U.S. Army technical command and air force. Five yrs. public library service Can handle own typing and correspondence Female. Midwest. \$3500. 811-P.E.

Design or Office Engr. C.E. and Structural 33. Four yrs. supervising construction en gineering dept. of oil refinery; two and a half yrs. designing, detailing, and checking fabricated structural steel work; and two yrs. concrete research. \$6000 Chicago. 812 P.E.

Chief Engr. E.E. & M.E. 34. Five yrs. complete charge motion picture camera design; one and half yrs. developing carrier equipment. Two yrs. drafting seismograph apparatus. \$8500 Chicago. \$13-P.E.